

Title (en)  
Fire sprinklers.

Title (de)  
Löschbrause.

Title (fr)  
Tête extinctrice.

Publication  
**EP 0310439 A1 19890405 (EN)**

Application  
**EP 88309141 A 19880930**

Priority  
GB 8723226 A 19871002

Abstract (en)  
A fire sprinkler (1) has a flow passage (3) for water or other extinguishing fluid closed by a frangible body (4), which may be a simple disc. A separate mechanism responsive to temperature-rise conditions shatters the frangible body (4), and the fluid then flows from the passage (3) to impinge on a distributor (5) (as in conventional sprinklers). The shattering mechanism is preferably actuated by a shape-memory alloy, preferably in sheet form (11), which can be located below the distributor (5) for maximum exposure to radiant as well as convective heat; it can also be thermally insulated, contributing further to speed of response.

IPC 1-7  
**A62C 37/18**; F16K 31/00; F16K 17/40; F03G 7/06

IPC 8 full level  
**A62C 37/10** (2006.01); **A62C 37/11** (2006.01); **F03G 7/06** (2006.01); **F16K 17/40** (2006.01); **F16K 31/00** (2006.01)

CPC (source: EP US)  
**A62C 37/10** (2013.01 - EP US); **F03G 7/065** (2021.08 - EP US)

Citation (search report)  
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• [Y] EP 0131997 A1 19850123 - LEUVEN RES & DEV VZW [BE]  
• [A] US 3834463 A 19740910 - ALLARD R, et al  
• [A] AU 480300 A 19750227

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Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

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